

Abstract

It is the object of the present invention to provide a catalyst for the selective decomposition of N_2O in a mixture of nitrous gases which is adapted to be applied in a temperature range of from 700°C to at least 1000°C without any impairment of the catalyst activities. This object is achieved by a catalyst
5 consisting of a porous ceramic support material and a catalytic active phase, wherein said support material consists of at least 95 percent by weight of one or a plurality of alkaline earth compound/s. The catalyst according this invention is preferably used in the production of nitric acid.